# The NIH Data Management and Sharing Requirements and the DMPTool



for the Novice (or Non-!) Data Librarian

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# Objectives

By the end of this presentation, you will:

- 1. define research data management and sharing plans
- 2. identify the carrots and sticks of integrating research data management practices with research
- 3. define the two requirements of the new NIH Data Management and Sharing Policy (effective NOW!)
- 4. outline the [current!] parameters of the NIH required plan
- 5. access and utilize a helpful template tool to create your plan

# What is a Data Management [& Sharing] Plan?

"Data Management and Sharing Plan: A plan describing the data management, preservation, and sharing of scientific data and accompanying metadata<sup>6</sup>."

A DMSP basically describes what researchers will do with data **during** the project as well as **after** the project is completed.

<sup>6</sup>United States National Institutes of Health. (2020, October 29). Final NIH policy for data management and sharing. https://grants.nih.gov/grants/guide/notice-files/NOT-OD-21-013.html

# Why are Data Management & Sharing Important?

- Required for reproducibility
- Facilitates data reuse
- Helps make data FAIR





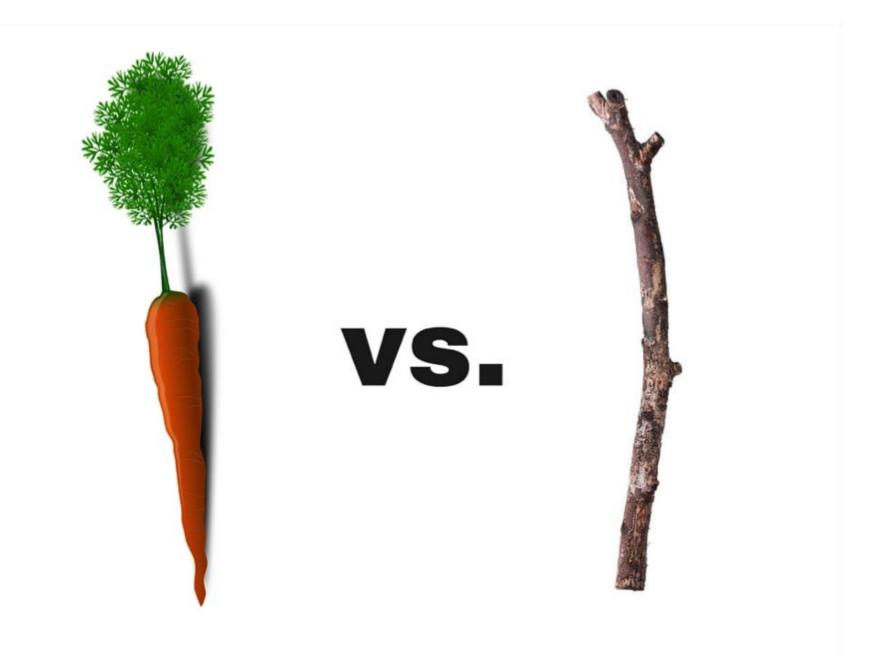


Image from https://www.ajbsportsineducation.com/wpcontent/uploads/2018/09/Carrotorstick.png

#### The Carrots:

A well-managed project outlined by a data management and sharing plan benefits the researcher and can help to make the research more efficient, effective, and impactful by:

- keeping the team organized and on schedule
- helping to prevent data and/or file disorganization, loss, or corruption
- avoiding data duplication
- ensuring that the research meets legal and ethical requirements
- increasing research impact and visibility by facilitating reproducibility and sharing
- saving the researcher time and resources!



https://www.neogaf.com/threads/vau lt-boy-and-his-thumbs-up.1121776/

### The Sticks:

- Journals—PLOS, Nature, JDAP Partners
- Funders—NSF, NIH
- Home Institutions...





https://www.meme-arsenal.com/memes/5806b5169e043a76b1555f1a601c0bf8.jpg

# Before we get started...

#### **Purpose**

"...reinforces NIH's
longstanding commitment
to making the results and
outputs of NIH-funded
research available to the
public through effective and
efficient data management
and data sharing practices."

#### Scope

"...applies to all research, funded or conducted in whole or in part by NIH, that results in the generation of scientific data...

[it] does not apply to research and other activities that do not generate scientific data, including training, infrastructure development, and non-research activities."

# Working Group on NIH DMSP Guidance

Hao Ye, University of Florida

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Kelsey Badger, The Ohio State University

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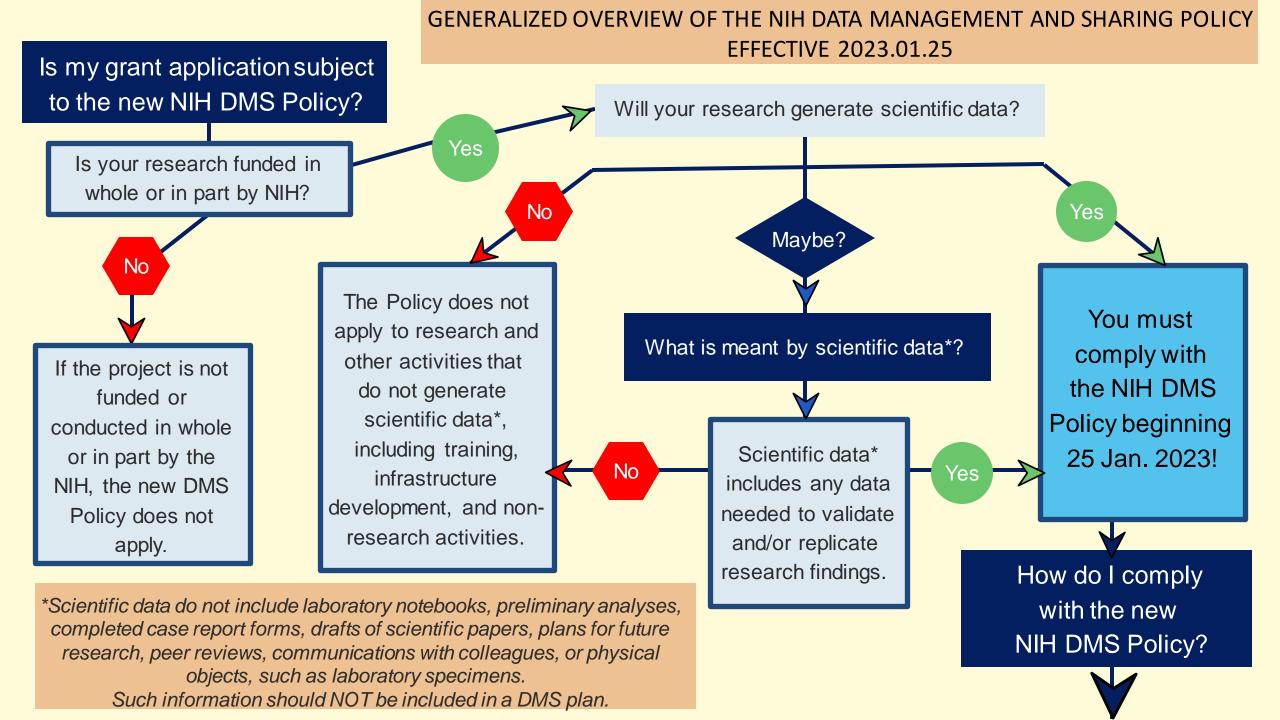
Collin Schwantes, EcoHealth Alliance

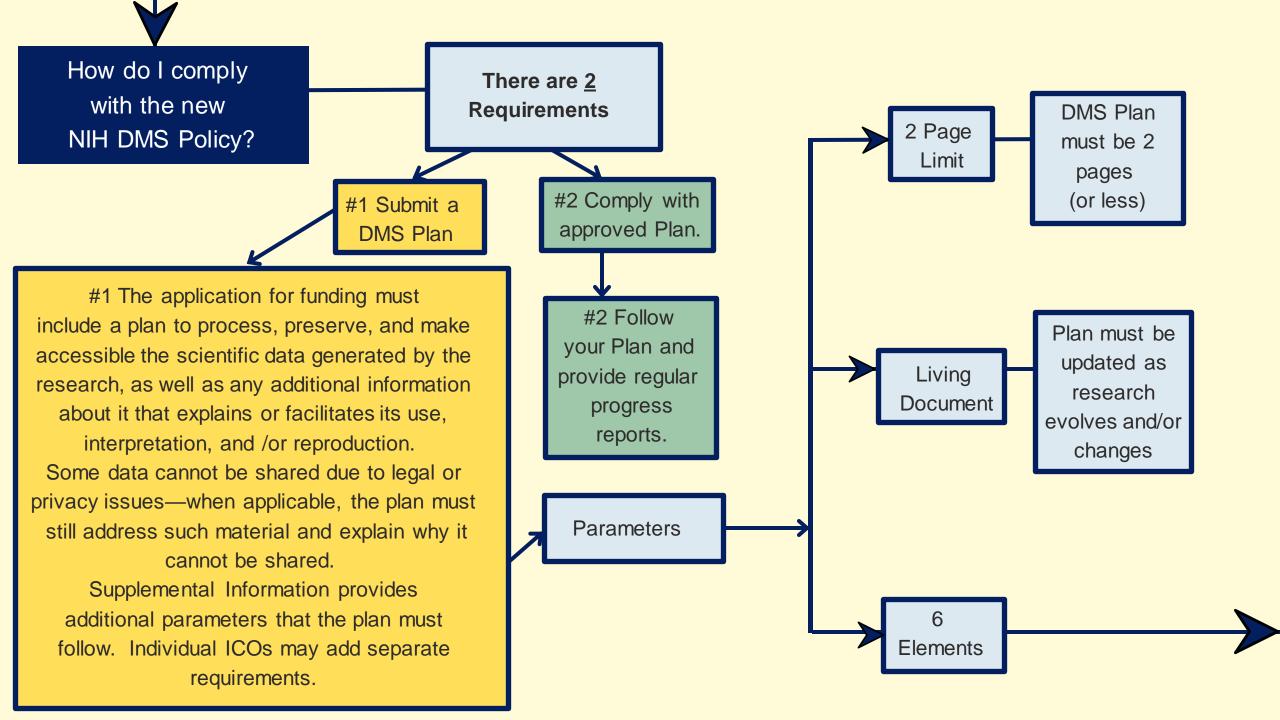
Cynthia Sheffield, NIH Library

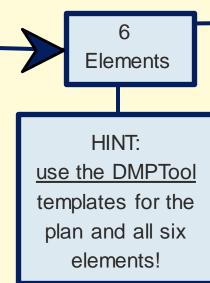
Katy Smith, Saint Louis University

Ummea Urmi, New York University Langone Health

https://osf.io/uadxr/







Need Assistance?
Contact the
Librarians

View the Data

Management

Guide

Access the DMPTool Guide Data Type

What data/metadata will be generated; how will it be processed, managed, preserved, and shared? Will any data not be shared? Why?

Related Tools, Software, and/or Code What tools/software are needed to support reproducibility? How can they be accessed? How long will they be available?

Standards

What standards will be applied to data/associated metadata? If no discipline consensus data standards exist, consider committing to general or interdisciplinary standards or simply state that no consensus data standards exist.

Data Preservation, Access and Associated Timelines

What repository will be used?
 How will data be findable/identifiable?

When will what be made available and for how long?

NOTE: NIH requires data be shared as soon as possible: no later than time of publication or end of grant period, whichever comes first.

Access, Distribution, or Reuse Considerations

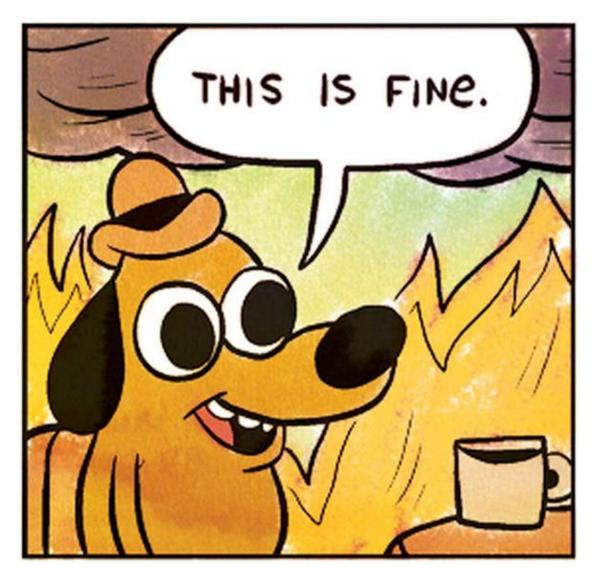
Are there any limitations or restrictions to data sharing?

Oversight of Data

Management and Sharing

How will the Plan be monitored and by whom?





https://www.theverge.com/2016/5/5/11592622/this-is-fine-meme-comic

# DMPTool NIH Working Group



"...working group consisting of data librarians from across the US. The main focus of this WG is to build and update the NIH DMSP templates. Additional work is being done by an education sub-committee that is producing associated educational resources."

#### Swim downstream with the





#### The DMPTool!

- Includes customized templates that comply with funder mandates.
- Leads you through writing your plan by breaking it down by the NIH required elements.
- Provides links to useful guidance from NIH, suggested responses, and additional resources.
- Is Free!

Let's Check it Out! <a href="https://dmptool.org/">https://dmptool.org/</a>

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By the end of this presentation, you now can:

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# Objectives

By the end of this presentation, you can:

hold your head high and confidently converse with PIs, data scientists, and data sicences librarians because you know just about as much about how to comply with the NIH Data Management and Sharing Policy as well as what effects it will have as they do!

